C:\Program Files\Stnexp\Queries\776693.st

```
chain nodes :
   1 2 3
           4
               5
                  6
                    7
                      8
                          9
                             10
                                 11
                                    12
                                        13
                                            14
                                                15
                                                    16
                                                       17
                                                           18
                                                               19
                                                                   20
                                                                       21
                                                42
                                                                   47
   22 23 24
                             35 36 37
                                        40
                                                            45
               25
                      27
                          28
                                            41
                                                    43
                                                       44
                                                                46
                  26
ring nodes :
   48 49 50
               51
                  52
                      53
chain bonds :
   1-2 1-12 1-13 1-14
                         2-3
                             3-4 3-15 3-16 4-5
                                                  5-6 5-17 5-18 6-7 7-8
                        9-21 9-22 10-11 11-23 11-24 11-25 18-26 26-27
   7-19 7-20 8-9 9-10
                                                                     43-46
   26-28 28-35 35-36 36-37
                              37-40 40-41
                                          40-45 41-42 42-43 43-44
   44-47 47-48
ring bonds :
         48-53 49-50
                       50-51
                              51-52
                                     52-53
   48-49
exact/norm bonds :
   26-27
         26-28 48-49
                      48-53
                              49-50
                                    50-51
                                           51-52
                                                  52-53
exact bonds :
             1-13
                   1-14
                         2-3
                              3-4 3-15 3-16 4-5 5-6 5-17 5-18 6-7 7-8
   1-2 1-12
   7-19 7-20 8-9 9-10 9-21 9-22 10-11 11-23 11-24 11-25 18-26 28-35
   35-36 36-37 37-40 40-41
                              40-45 41-42
                                           42-43
                                                 43-44
                                                       43-46 44-47 47-48
Match level :
            2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS
                                                              8:CLASS
   1:CLASS
   9:CLASS
            10:CLASS
                     11:CLASS
                              12:CLASS 13:CLASS 14:CLASS 15:CLASS
   16:CLASS
             17:CLASS
                      18:CLASS
                                19:CLASS
                                         20:CLASS
                                                   21:CLASS
                                                            22:CLASS
   23:CLASS
             24:CLASS
                      25:CLASS
                                26:CLASS
                                         27:CLASS
                                                   28:CLASS
                                                            35:CLASS
                                        42:CLASS
   36:CLASS
             37:CLASS
                      40:CLASS
                               41:CLASS
                                                  43:CLASS 44:CLASS
                               48:Atom 49:Atom 50:Atom 51:Atom 52:Atom
   45:CLASS
            46:CLASS
                      47:CLASS
   53:Atom
```

## CAS ONLINE PRINTOUT

=> d his

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FILE 'REGISTRY' ENTERED AT 08:24:49 ON 18 JAN 2006

L1 STRUCTURE UPLOADED

L2 0 S L1 FUL

=>

6 7 1 2 3 5 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 47 49 28 48 ring nodes : 37 38 39 40 41 42 43 44 45 46 chain bonds :  $1-2 \quad 1-12 \quad 1-13 \quad 1-14 \quad 2-3 \quad 3-4 \quad 3-15 \quad 3-16 \quad 4-5 \quad 5-6 \quad 5-17 \quad 5-18 \quad 6-7 \quad 7-8$ 7-19 7-20 8-9 9-10 9-21 9-22 10-11 11-23 11-24 11-25 18-26 26-2726-28 28-37 38-48 39-49 42-47 ring bonds : 37-38 37-42 38-39 39-40 40-41 40-43 41-42 41-46 43-44 44-45 45-46 exact/norm bonds : 26-27 26-28 28-37 40-43 41-46 43 - 4444 - 4545-46 exact bonds : 3-4 3-15 3-16 4-5 5-6 5-17 5-18 6-7 7-8 1-13 1-14 2-3 1-2 1-12 7-19 7-20 8-9 9-10 9-21 9-22 10-11 11-23 11-24 11-25 18-26 38-48 39-49 42-47 normalized bonds : 37-38 37-42 38-39 39-40 40-41 41-42 Match level : 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 1:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 23:CLASS 24:CLASS 37:Atom 38:CLASS 39:CLASS 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:CLASS 48:CLASS 49:CLASS

chain nodes :

## CAS ONLINE PRINTOUT

## => d his

(FILE 'HOME' ENTERED AT 08:24:38 ON 18 JAN 2006)

FILE 'REGISTRY' ENTERED AT 08:24:49 ON 18 JAN 2006

L1 STRUCTURE UPLOADED

L2 0 S L1 FUL

L3 STRUCTURE UPLOADED

L4 0 S L3 FUL

=>